

PATENT COOPERATION TREATY

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PCT
NOTIFICATION OF TRANSMITTAL OF
INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing
(day/month/year)

01 JUN 2007

Applicant's or agent's file reference

SALTERP47APCP1

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

PCT/US04/24291

27 July 2004 (27.07.2004)

28 July 2003 (28.07.2003)

Applicant

SALTER LABS

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Mail Stop PCT, Attn: IPEA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

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Form PCT/IPEA/416 (July 1992)

Authorized officer

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SALTERP47APCP1		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US04/24291	International filing date (day/month/year) 27 July 2004 (27.07.2004)	Priority date (day/month/year) 28 July 2003 (28.07.2003)	
International Patent Classification (IPC) or national classification and IPC IPC: A61M 15/08(2006.01) USPC: 128/207.18,206.11,203.22			
Applicant SALTER LABS			
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of ___ sheets.</p> <p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of report with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>			
Date of submission of the demand 04 March 2005 (04.03.2005)		Date of completion of this report 19 May 2007 (19.05.2007)	
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201		Authorized officer Justine Yu <i>J. Huiley</i> Telephone No. 571-727-3700	

Form PCT/IPEA/409 (cover sheet)(July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/US04/24291

I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed.
- ☒ the description:
pages 1-23 as originally filed
pages NONE filed with the demand
pages NONE filed with the letter of _____
- ☒ the claims:
pages 34-41 as originally filed
pages NONE as amended (together with any statement) under Article 19
pages NONE filed with the demand
pages NONE filed with the letter of _____
- ☒ the drawings:
pages 1-16 as originally filed
pages NONE filed with the demand
pages NONE filed with the letter of _____
- ☐ the sequence listing part of the description:
pages NONE as originally filed
pages NONE filed with the demand
pages NONE filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.
These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in printed form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages NONE
- ☐ the claims, Nos. NONE
- ☐ the drawings, sheets/fig NONE

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/US04/24291**V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. STATEMENT**

Novelty (N)	Claims <u>3,7,10,13,17,21-28,30 and 32-43</u>	YES
	Claims <u>1,2,4-6,8-9,11,12,14-16,18-20,29 and 31</u>	NO
Inventive Step (IS)	Claims <u>NONE</u>	YES
	Claims <u>1-43</u>	NO
Industrial Applicability (IA)	Claims <u>1-43</u>	YES
	Claims <u>NONE</u>	NO

2. CITATIONS AND EXPLANATIONS

Claims 1,2,4-6,8-9,11,12,14-16,18-20,29, and 31 lack novelty under PCT Article 33(2) as being anticipated by Payton US 4,660,555.

In figures 10-12, Payton discloses a nasal cannula for supplying a respiratory gas to a patient. The nasal cannula comprises a pair of supply lines (see abstract) each having a head at one end thereof with a discharge opening (20a) therein for discharging a respiratory gas. The opposite end of each of the pair supply lines is connected to a respiratory gas source (41). Each head is sized to be snugly received and retained within one of the nasal cavities of the patient (fig. 1) while forming at least one leakage passage having a cross sectional open area (see fig. 1) to maintain a sufficient positive back pressure in the patient during breathing. Payton in figure 10-12 continues to disclose that the exterior surface of the head has a plurality of elongated troughs (45) formed therein for partially defining a plurality of leakage passages therein to facilitate exhausting of any excess respiratory gas and inhalation of any room air required by the patient (see col. 6 lines 45-51).

Claims 3,7,10,13,17,21-28,30, and 32-43 lack an inventive step under PCT Article 33(3) as being obvious over Payton US 4,660,555 in view of Hickie et al. 2002/0017300.

Payton discloses the claimed invention as applied for claims 1,2,4-6,8-9,11,12,14-16,18-20,29, and 31. Payton however does not disclose depicting between six and eight elongated troughs, a heater for heating the respiratory gas, a humidifier for supplying humidity of the respiratory gas and a pressure sensor. However, Hickie, which also relates to a nasal cannula, teaches that it was known at the time of the present invention to incorporate a heater, a humidifier and a pressure sensor for providing effective ventilator monitoring (paragraph 0012). Regarding the limitation of between six and eight elongated troughs, this limitation would have been obvious to one of ordinary skill in the art given the fact that Payton specifically discloses four troughs.

Claims 1-43 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.